

Patent Abstracts of Japan

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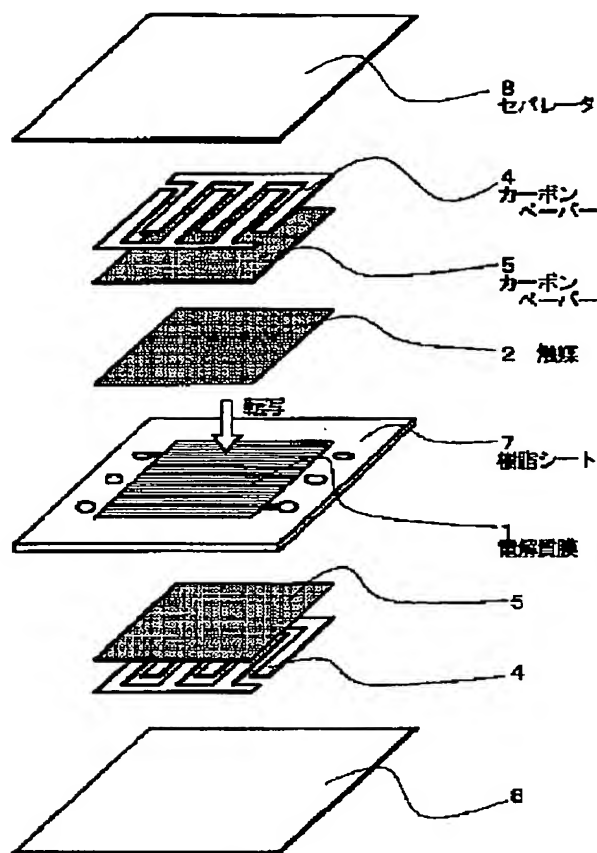
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APPLICANT : FUJI ELECTRIC CO LTD;

INVENTOR : KINOSHITA SHINJI;

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TITLE : SOLID POLYMER ELECTROLYTE FUEL CELL



ABSTRACT : PROBLEM TO BE SOLVED: To provide a compact and inexpensive solid polymer electrolyte fuel cell by forming a unit cell as a thin type at a low cost.

SOLUTION: A catalyst 2 is transferred to both surfaces of an electrolyte membrane 1 held on a resin sheet 7 like a picture frame, thereby preparing a membrane electrode complex body (MEA). Also, carbon paper 5 as a gas dispersion layer is attached to both external surfaces of MEA and cutout carbon paper 4 is attached to the external surfaces of the carbon paper 5 as a gas flow passage constituting member. A separator 8 made of their sheet metal is provided at the outermost layer, thereby forming a unit cell. In this case, the space of the lacking part of the carbon paper 4 due to cutting between the carbon paper 5 and the separator 8 is used as a gas flow passage for reaction gas.

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